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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/626,433	07/24/2003	Gerald R. Stanley	11336/514 (P03086US)	9629	
27879 75	10/27/2004	EXAMINER			
INDIANAPOLIS OFFICE 27879 BRINKS HOFER GILSON & LIONE ONE INDIANA SQUARE, SUITE 1600			RILEY, S	RILEY, SHAWN	
			ART UNIT	PAPER NUMBER	
INDIANAPOL	LIS, IN 46204-2033		2838		
			DATE MAILED: 10/27/2004	DATE MAILED: 10/27/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/626,433	STANLEY, GERALD R.			
		Examiner	Art Unit			
		Shawn Riley	2838			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)	Responsive to communication(s) filed on					
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims						
 4) Claim(s) 1-57 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 26-34 is/are allowed. 6) Claim(s) 1-5, 19-24, 35, 38-43, 46-49, 53-54 is/are rejected. 7) Claim(s) 6-18,25,36,37,44,45,50-52 and 55-57 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
	The specification is objected to by the Examine	ar.				
<i>,</i> —	The drawing(s) filed on is/are: a) _ acc		Examiner.			
10)	Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4)				
3) 🔯 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 02/04&07/03.		ratent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 U.S.C. § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-5 and 19-24, 35, 38-43, 46¹-47, 49, 53-54, and 58-60 are rejected under 35 U.S.C. §102(b) as being fully anticipated by Maksimovic et al (U.S. Patent 5,383,109). Maksimovic et al show,² (in, e.g., the(ir) figure 11 and corresponding disclosure)

 3As to claims 1-5 (and likewise 19-24, 35, 38-43, 46³-47, 49, 53-54, 58-60);

A power factor correcting power supply comprising: an opposed current converter having an input (at 22) and an output (at 49); a power factor correction controller coupled with

¹ For method claims, note that under MPEP 2112.02, the principles of inherency, if a prior art device, in its normal and usual operation, would necessarily perform the method claimed, then the method claimed will be considered to be anticipated by the prior art device. When the prior art device is the same as a device described in the specification for carrying out the claimed method, it can be assumed the device will inherently perform the claimed process. In re King, 801 F.2d 1324, 231 USPQ 136 (Fed. Cir. 1986). Therefore the previous rejections based on the apparatus will not be repeated.

² Note claims will be addressed individually and the material in parentheses are the examiner's annotated comments. Further unless needed for clarity reasons, recited limitation(s), will be annotated only upon their first occurrence. Annotated claims begin with the phrase "As to claim". Claims that are not annotated are seen as having already had the invention(s) addressed previously in an annotated claim. Bolded words/phrases indicate rejected material based 112 paragraph rejections. Underlined words/phrases indicate objected to material.

³ For method claims, note that under MPEP 2112.02, the principles of inherency, if a prior art device, in its normal and usual operation, would necessarily perform the method claimed, then the method claimed will be considered to be anticipated by the prior art device. When the prior art device is the same as a device described in the specification for carrying out the claimed method, it can be assumed the device will inherently perform the claimed process. In re King, 801 F.2d 1324, 231 USPQ 136 (Fed. Cir. 1986). Therefore the previous rejections based on the apparatus will not be repeated.

the opposed current converter, where the opposed current converter is directed by the power factor correction controller to control the waveshape of an AC line current supplyable to the input (22) by a power source (20); and an output stage power converter (40) coupled with the output of the opposed current converter, where the output stage power converter is configured to provide isolation (diode 45/46 provide isolation, i.e., directional supplies) and voltage conversion of a DC boost voltage provided at the output of the opposed current converter.

As to claim 2;

The power factor correcting power supply of claim 1, where the opposed current converter is configured as a boost converter (see, e.g, title of the invention) to receive rectified AC voltage (from 23-26) on the input and supply DC boost voltage (at 49) on the output.

As to claim 3;

The power factor correcting power supply of claim 1, where the power factor correction controller (this is how controllers, by definition, control) is configured to control the opposed current converter to regulate the DC boost voltage supplied at the output (output at 49 is a dc output).

As to claim 4;

The power factor correcting power supply of claim 1, where the opposed current converter is directed by the power factor correction controller with frequency modulation to control electromagnetic interference (one of the many reasons of improving power factor is too reduce noise also known as emi).

As to claim 5;

The power factor correcting power supply of claim 1, where the opposed current

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converter includes a pair of boost switches (93/94) each operable at a duty cycle and

configured to be closeable at substantially the same center of time to control the

waveshape of the AC line current (see, e.g., column 8 lines 18-33).

Allowable Subject Matter

3. Claims 6-18, 25, 36-37, 44, 45, 48, 50-52, and 55-57 are objected to as being dependent

upon a rejected base claim, but would be allowable if rewritten in independent form including all

of the limitations of the base claim and any intervening claims.

4. Claims 26-34 are allowable over the prior art of record.

5. As allowable subject matter has been indicated, applicant's response must either comply

with all formal requirements or specifically traverse each requirement not complied with. See 37

C.F.R. § 1.111(b) and section 707.07(a) of the M.P.E.P.

6. The following is an examiner's statement of reasons for allowance: No prior art

uncovered anticipates or renders obvious applicant(s) claimed power factor correcting power

supply circuitry and method claimed including a (first/second) boost capacitor, transformer,

feed-forward control.

Conclusion

Any inquiry from other than the applicant/attorney of record concerning this communication or earlier communications from the Examiner should be directed to the Patent

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Electronic Business Center (EBC) at 1.866.217.9197. Any inquiry from a member of the press concerning this communication or earlier communications from the Examiner or the application should be directed to the Office of Public Affairs at 703.305.8341. Any inquiry from the applicant or an attorney of record concerning this communication or earlier communications from the Examiner should be directed to Examiner Riley whose telephone number is 571.272.2083. The Examiner can normally be reached Monday through Thursday from 7:30-The Examiner's Supervisor is Mike Sherry who can be 6:00 p.m. Eastern Standard Time. reached at 571.272.2084. Any inquiry about a case's location, retrieval of a case, or receipt of an amendment into a case or information regarding sent correspondence to a case should be directed to 2800's Customer Service Center at 571.272.2815. Any papers to be sent by fax MUST BE sent to fax number 703.872.9306. Any inquiry of a general nature of this application should be directed to the Group receptionist whose telephone number is 571.272.2800. Status information of cases may be found at http://pair-direct.uspto.gov wherein unpublished application information is found through private PAIR and published application information is Further help on using the PAIR system is available at found through public PAIR. 1.866.217.9197 (Electronic Business Center).

October 04

Shawn Riley Primary Examiner